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DRY PAINT TRANSFER PROCESS AND PRODUCT

Abstract of the Disclosure

An automotive quality paint coat is laminated to the exterior surface of a molded plastic car body member or In one embodiment, the paint coat includes an exterior clear coat above a color coat. processing, the clear coat and color coat are each coated on a temporary flexible casting sheet and dried. gloss surface is transferred to the clear coat from the casting sheet. The paint coat is then transferred from the casting sheet to a thin, semi-flexible thermoformable plastic backing sheet by dry paint transfer-laminating techniques. The resulting laminate is thermoformed into a complex three-dimensional shape of the car body member or panel. The preformed laminate is then bonded to an underlying plastic substrate material, by injectioncladding techniques, for example, to form the finished The paint coat has sufficient elongation to article. retain exterior automotive appearance and durability properties during thermoforming without deglossing. backing sheet absorbs defects in the substrate material so the paint coat retains its appearance and durability properties during the injection-cladding step. finished article comprises a high gloss, defect-free paint coat on the exterior of a molded plastic car body member or panel. Solution-form polyvinylidene fluoride/acrylic paint systems have remarkably high combined gloss and distinctiveness-of-image levels, together with durability properties required for exterior automotive use.

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